

ABSTRACT

[Problem to Be Solved]

- 5        To realize an anisotropic bonded magnet that reduces cogging torque without lowering output torque.

[Means for Solving the Problem]

- 10        The present invention provides a hollow cylindrically shaped anisotropic bonded magnet for use in a 4-pole motor, formed by molding anisotropic rare-earth magnet powder with resin. The alignment distribution of the anisotropic rare-earth magnet powder in a cross section perpendicular to the axis of the anisotropic bonded magnet is in the normalized direction of the cylindrical side of the hollow cylindrical shape in the main region of a polar
- 15        period, and in a transition region in which the direction of the magnetic pole changes, steadily points towards a direction tangential to the periphery of the cylindrical side at points closer to the neutral point of the magnetic pole, and becomes a direction tangential to the periphery of the cylindrical side at that neutral point, and steadily points toward the normalized direction of
- 20        the cylindrical side at points farther away from the neutral point.

[Selected Drawings]

FIG. 1

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